

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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| <b>SUBMISSION TYPE:</b>            | NEW ASSIGNMENT           |
| <b>NATURE OF CONVEYANCE:</b>       | RELEASE BY SECURED PARTY |
| <b>CONVEYING PARTY DATA</b>        |                          |
| <b>Name</b>                        | <b>Execution Date</b>    |
| MORGAN STANLEY & CO. LLC           | 12/13/2012               |
| <b>RECEIVING PARTY DATA</b>        |                          |
| <b>Name:</b>                       | FENWAL, INC.             |
| <b>Street Address:</b>             | Three Corporate Drive    |
| <b>City:</b>                       | Lake Zurich              |
| <b>State/Country:</b>              | ILLINOIS                 |
| <b>Postal Code:</b>                | 60047                    |
| <b>Name:</b>                       | FENWAL HOLDINGS, INC.    |
| <b>Street Address:</b>             | Three Corporate Drive    |
| <b>City:</b>                       | Lake Zurich              |
| <b>State/Country:</b>              | ILLINOIS                 |
| <b>Postal Code:</b>                | 60047                    |
| <b>PROPERTY NUMBERS Total: 244</b> |                          |
| <b>Property Type</b>               | <b>Number</b>            |
| Patent Number:                     | 5724988                  |
| Patent Number:                     | 6523698                  |
| Patent Number:                     | 6189704                  |
| Patent Number:                     | 6132413                  |
| Patent Number:                     | 6358420                  |
| Application Number:                | 60287027                 |
| Application Number:                | 10475767                 |
| Application Number:                | 60402286                 |
| Application Number:                | 10618353                 |
| Patent Number:                     | 5030209                  |

CH \$9760.00 5724988

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| Patent Number:      | 5181524  |
| Patent Number:      | 5219333  |
| Patent Number:      | 5086922  |
| Patent Number:      | 5092462  |
| Patent Number:      | 5273161  |
| Patent Number:      | 5409112  |
| Patent Number:      | 5714125  |
| Patent Number:      | 5910289  |
| Patent Number:      | 6074612  |
| Patent Number:      | 7153386  |
| Patent Number:      | 6727101  |
| Patent Number:      | 6503453  |
| Application Number: | 60030212 |
| Patent Number:      | 5957125  |
| Application Number: | 60207709 |
| Patent Number:      | 6709428  |
| Patent Number:      | 7024749  |
| Patent Number:      | 5167657  |
| Patent Number:      | 5100401  |
| Patent Number:      | 5026347  |
| Patent Number:      | 5460625  |
| Patent Number:      | 5512187  |
| Patent Number:      | 5314421  |
| Patent Number:      | 5507525  |
| Patent Number:      | 5330464  |
| Patent Number:      | 5372143  |
| Patent Number:      | 5824216  |
| Patent Number:      | 5770051  |
| Patent Number:      | 5565977  |
| Patent Number:      | 6126618  |
| Patent Number:      | 6387086  |
| Patent Number:      | 7044941  |
| Application Number: | 10957016 |
| Application Number: | 11251283 |
| Application Number: | 11250717 |

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| Patent Number:      | 6742760  |
| Application Number: | 60353930 |
| Application Number: | 10501571 |
| Application Number: | 60364314 |
| Application Number: | 10279251 |
| Application Number: | 10974651 |
| Application Number: | 60740312 |
| Application Number: | 11564085 |
| Application Number: | 11376790 |
| Application Number: | 11555797 |
| Application Number: | 11555868 |
| Patent Number:      | 4997577  |
| Patent Number:      | 5507904  |
| Patent Number:      | 5772880  |
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| Patent Number:      | 6601710  |
| Patent Number:      | 6688476  |
| Application Number: | 10764630 |
| Patent Number:      | 6367634  |
| Application Number: | 10761850 |
| Patent Number:      | 6422397  |
| Patent Number:      | 6745902  |
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| Patent Number:      | 5232437  |
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| Patent Number:      | 5614106  |
| Patent Number:      | 5870805  |
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| Patent Number:      | 5104526  |
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| Patent Number:      | 5482440  |
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| Patent Number:      | 5676841  |
| Patent Number:      | 6059979  |
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| Patent Number:      | 5639382  |
| Patent Number:      | 6197202  |
| Patent Number:      | 5759413  |
| Patent Number:      | 6872307  |
| Application Number: | 11064267 |
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| Patent Number:      | 6325775  |
| Patent Number:      | 6949079  |
| Application Number: | 11052528 |
| Patent Number:      | 6984218  |
| Patent Number:      | 6481980  |
| Application Number: | 10828440 |
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| Patent Number:      | 6322488  |
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| Application Number: | 10826420 |
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| Application Number: | 11427402 |
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| Patent Number:      | 6855489  |
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| Patent Number:      | 6566046  |

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|                     | 6251580  |
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| Patent Number:      | 6364864  |
| Patent Number:      | 6565802  |
| Patent Number:      | 6986867  |
| Application Number: | 11191134 |
| Patent Number:      | 7068361  |
| Application Number: | 11443599 |
| Application Number: | 11443927 |
| Patent Number:      | 7105093  |
| Patent Number:      | 7205877  |
| Application Number: | 11353397 |
| Application Number: | 10269444 |
| Application Number: | 10008361 |
| Patent Number:      | 6936413  |
| Application Number: | 11173214 |
| Application Number: | 60364289 |
| Application Number: | 10290035 |
| Application Number: | 10661994 |
| Application Number: | 11267391 |

#### CORRESPONDENCE DATA

Fax Number:

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 312-701-8944

Email: ptierney@mayerbrown.com, rassmus@mayerbrown.com,  
ipdocket@mayerbrown.com

Correspondent Name: Patrick Tierney

Address Line 1: PO Box 2828

Address Line 4: Chicago, ILLINOIS 60690-2828

|                         |                 |
|-------------------------|-----------------|
| ATTORNEY DOCKET NUMBER: | 12343442        |
| NAME OF SUBMITTER:      | Patrick Tierney |
|                         |                 |



**Total Attachments: 26**

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## **SECOND-LIEN INTELLECTUAL PROPERTY SECURITY RELEASE AGREEMENT**

This SECOND-LIEN INTELLECTUAL PROPERTY SECURITY RELEASE AGREEMENT (the “**Second-Lien IP Security Release**”), dated as of December 13, 2012, by MORGAN STANLEY & CO. LLC (formerly known as Morgan Stanley & Co., Incorporated), as collateral agent for the Secured Parties (in such capacity, together with its successors in such capacity, the “**Collateral Agent**”), in favor of FENWAL, INC. and FENWAL HOLDINGS, INC (collectively, the “**Grantors**”). All capitalized terms used herein and not otherwise defined shall have the meaning assigned to such terms in the Credit Agreement (as defined below).

WHEREAS, the Grantors entered into that certain Second-Lien Security Agreement, dated as of February 28, 2007 (the “**Second-Lien Security Agreement**”) among Fenwal Holdings, Inc., a Delaware corporation (“**Holdings**”), Fenwal, Inc., a Delaware corporation (the “**Borrower**”), each of the subsidiaries of the Borrower listed on the signature pages hereof (each such subsidiary, individually, a “**Subsidiary Grantor**” and, collectively, the “**Subsidiary Grantors**”), and the Collateral Agent;

WHEREAS, under the terms of the Second-Lien Security Agreement, the Grantors granted a Security Interest to the Collateral Agent in such Grantor’s United States Registered Intellectual Property for recording with the United States Patent and Trademark Office (the “**USPTO**”) and the United States Copyright Office (the “**USCO**”) and other United States Governmental Authorities necessary or advisable to perfect the Security Interest hereunder in such United States Registered Intellectual Property;

WHEREAS, the Second-Lien IP Security Agreement was recorded with the Patent Division of the United States Patent and Trademark Office on May 15, 2007, at Reel 019297 and Frame 00168; and with the Trademark Division of the United States Patent and Trademark Office on May 15, 2007, at Reel 003542 and Frame 0644; and

WHEREAS, the Collateral Agent now desires to release its security interest in and to the Grantors’ right, title and interest in and to the Collateral identified in this Second-Lien IP Security Release.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Collateral Agent agrees as follows:

SECTION 1. Release of Security Interest. The Collateral Agent hereby releases to the Grantors its security interest in all of the Grantors’ right, title, and interest in and to the following (the “**Collateral**”):

(i) all patents and patent applications, including, without limitation, the patents and patent applications set forth in Schedule A hereto (collectively, the “**Patents**”);

(ii) all trademarks and service mark rights, including, without limitation, the trademark and service mark registrations and applications set forth in Schedule B hereto, together with the goodwill symbolized thereby (collectively, the “*Trademarks*”);

(iii) all copyrights, whether registered or unregistered, including, without limitation, the copyright registrations and applications and exclusive copyright licenses set forth in Schedule C hereto (collectively, the “*Copyrights*”);

(iv) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of such Grantor accruing thereunder or pertaining thereto;

(v) any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages.; and

(vi) any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and supporting obligations relating to, any and all of the Collateral of or arising from any of the foregoing.

**SECTION 2. Recordation.** The Collateral Agent authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks and any other applicable government officer record this Release.

**SECTION 3. Further Assurances.** In each case upon the reasonable request of a Grantor and at such Grantor’s expense, the Collateral Agent shall execute and deliver to such Grantor all further releases and other documents or take other actions necessary to effect the releases of the Collateral Agent’s security interests in the Collateral in accordance with this Second-Lien IP Security Release.

**SECTION 4. Governing Law.** This Second-Lien IP Security Release shall be governed by, and construed in accordance with, the laws of the State of New York.

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, the Collateral Agent has caused this Second-Lien IP Security Release to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

MORGAN STANLEY & CO. LLC, as  
Collateral Agent

By: 

Name: STEPHEN B. KINT  
Title: Executive Director

SCHEDULE A TO THE  
SECOND-LIEN INTELLECTUAL PROPERTY  
SECURITY RELEASE AGREEMENT

UNITED STATES TRADEMARKS

See attached "United States Trademarks" Exhibit.

SCHEDULE A TO THE  
SECOND-LIEN INTELLECTUAL PROPERTY  
SECURITY RELEASE AGREEMENT

UNITED STATES TRADEMARKS

| Trademark            | Country | Status     | App. Number | Reg. Number |
|----------------------|---------|------------|-------------|-------------|
| ADSOL                | US      | Registered | 73/327182   | 1218845     |
| ALYX                 | US      | Registered | 76/337082   | 2772325     |
| AMICUS               | US      | Registered | 74/575241   | 2142964     |
| AUTOPHERESIS-<br>C   | US      | Registered | 73/479531   | 1371147     |
| BLOOD-PACK           | US      | Registered | 8212        | 641094      |
| CONTINUOUS<br>FLOW   | US      | Registered | 73/422848   | 1278944     |
| CS-3000              | US      | Registered | 249948      | 1157151     |
| FENWAL               | US      | Registered | 298662      | 1197286     |
| FENWAL               | US      | Registered | 76/295208   | 2690111     |
| FLEX-EXCEL*          | US      | Pending    | 78/711371   |             |
| GLYCEROLYTE          | US      | Registered | 72/378586   | 932806      |
| HEMATRON             | US      | Registered | 205982      | 801961      |
| HEMATYPE             | US      | Registered | 75/075246   | 2080280     |
| INTERSOL             | US      | Registered | 76/077081   | 2753566     |
| KINDERQ-5            | US      | Pending    | 77/048549   |             |
| MOBI                 | US      | Registered | 76/476114   | 3,060,634   |
| PEDIQ 5              | US      | Pending    | 77/048701   |             |
| PEDI-STORE 5         | US      | Pending    | 77/048709   |             |
| PLASMA-GARD          | US      | Registered | 249325      | 1160839     |
| PLASMA-GARD          | US      | Registered | 118859      | 1082372     |
| PLASMACELL-C         | US      | Registered | 74/221436   | 1707969     |
| PLASMALINK           | US      | Registered | 75/334712   | 2304595     |
| POWERFUL<br>MEDICINE | US      | Registered | 76/123451   | 2,577,614   |
| SPIKESMART           | US      | Registered | 75/377534   | 2469964     |

\* The trademark application marked with an asterisk is a United States intent-to-use trademark applications filed in the USPTO pursuant to 15 U.S.C. § 1051 Section 1(b), and the security interest should not be recorded against such application unless and until evidence of use of such mark in interstate commerce is accepted by the USPTO pursuant to 15 U.S.C. § 1051 Section 1(c) or Section 1(d).

SCHEDULE B TO THE  
SECOND-LIEN INTELLECTUAL PROPERTY  
SECURITY RELEASE AGREEMENT

UNITED STATES PATENTS

See attached "Owned U.S. Patents" Exhibit.

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| INLINE FILTER  | US      | 8/090552  | 5724988   |
| INLINE FILTER  | US      | 9/597653  | 6523698   |
| INLINE FILTER  | US      | 8/955409  | 6189704   |
| BREAKABLE CANNULA<br>ASSEMBLIES AND METHOD FOR<br>MANIPULATING THEM  | US      | 9/036337  | 6132413   |
| BLOOD COLLECTION METHOD<br>EMPLOYING AN AIR VENTING<br>BLOOD SAMPLE TUBE                                   | US      | 9/088231  | 6358420   |
| SEALING APPARATUS AND<br>METHOD  | US      | 60/287027 |           |
| SEALING APPARATUS AND<br>METHOD  | US      | 10/475767 |           |
| NEEDLE PROTECTOR   | US      | 60/402286 |           |
| NEEDLE PROTECTOR   | US      | 10/618353 |           |
| HOLDER FOR DOUBLE ENDED<br>BLOOD COLLECTION<br>RETRACTABLE NEEDLE  | US      | 269168    | 5030209   |
| NEEDLE GUARD FOR BLOOD<br>COLLECTION   | US      | 765956    | 5181524   |
| BLOOD COLLECTION TUBE<br>HOLDER  | US      | 828309    | 5219333   |
| DISPOSAL FOR NEEDLE AND<br>SYRINGES  | US      | 536708    | 5086922   |
| DISPOSAL FOR DISENGAGING<br>AND RECEIVING NEEDLES  | US      | 576378    | 5092462   |
| NEEDLE DISPOSAL SYSTEM<br>COMPRISED OF BLOOD<br>COLLECTION HOLDER AND<br>COMPANION BIOHAZARD<br>RECEPTACLE | US      | 708900    | 5273161   |
| NEEDLE DISPOSAL SYSTEM<br>COMPRISED OF BLOOD<br>COLLECTION HOLDER AND<br>COMPANION BIOHAZARD<br>RECEPTACLE | US      | 08/156083 | 5409112   |
| DEVICE FOR COLLECTING A<br>BLOOD SAMPLE FROM A<br>PLASTIC SEGMENT TUBE                                     | US      | 8/612093  | 5714125   |
| DEVICE FOR COLLECTING A<br>BLOOD SAMPLE FROM A<br>PLASTIC SEGMENT TUBE                                     | US      | 8/951440  | 5910289   |
| DEVICE FOR COLLECTING A<br>BLOOD SAMPLE FROM A<br>PLASTIC SEGMENT TUBE                                     | US      | 9/287000  | 6074612   |



**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

| InvTitle  | Country | AppNumber | PatNumber |
|---|---------|-----------|-----------|
| DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE                      | US      | 10/116770 | 7153386   |
| DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE                      | US      | 9/521739  | 6727101   |
| DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE                      | US      | 9/549982  | 6503453   |
| APPARATUS FOR INDICATING PROPER ORIENTATION FOR ORAL AND NASAL INHALERS               | US      | 60/030212 |           |
| APPARATUS FOR INDICATING PROPER ORIENTATION FOR ORAL AND NASAL INHALERS               | US      | 8/963880  | 5957125   |
| IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS                                       | US      | 60/207709 |           |
| IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS                                       | US      | 9/866139  | 6709428   |
| IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS                                       | US      | 10/318650 | 7024749   |
| PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT  | US      | 7/837581  | 5167657   |
| PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT  | US      | 7/494045  | 5100401   |
| PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT  | US      | 7/270006  | 5026347   |
| CRYOGENIC RESISTANT COEXTRUDED TUBING   | US      | 7/560698  | 5460625   |
| METHODS FOR PROCESSING RED CELL PRODUCTS FOR LONG TERM STORAGE FREE OF MICROORGANISMS | US      | 8/299793  | 5512187   |
| BLOOD LABELS AND THE LIKE   | US      | 7/847165  | 5314421   |
| BLOOD LABELS AND THE LIKE   | US      | 8/173337  | 5507525   |
| RELIABLE BREAKABLE CLOSURE MECHANISM  | US      | 7/849267  | 5330464   |
| BLOOD SAMPLING SYSTEM WITH LUER ADAPTER   | US      | 7/979567  | 5372143   |
| BLOOD COLLECTION SYSTEM   | US      | 8/650929  | 5824216   |
| BLOOD COLLECTION SYSTEM   | US      | 8/684516  | 5770051   |
| BLOOD CELL SEPARATOR SIGNAL PROCESSING SYSTEM AND METHOD                              | US      | 8/482363  | 5565977   |

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

| InvTitle  | Country | AppNumber | PatNumber        |
|---|---------|-----------|------------------|
| APPARATUS FOR OBTAINING LIQUID SAMPLES                                | US      | 9/231682  | 6126618          |
| PRE-DONATION SAMPLING SYSTEM INCLUDING A SAMPLING POUCH               | US      | 9/364628  | 6387086          |
| SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM                        | US      | 10/304299 | 7044941          |
| SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM                        | US      | 10/957016 |                  |
| SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM                        | US      | 11/251283 |                  |
| SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM                        | US      | 11/250717 |                  |
| METHOD AND APPARATUS FOR BLOOD SAMPLING                               | US      | 10/956296 |                  |
| FLOW CONTROL DEVICE   | US      | 9/964959  | 6742760          |
| IRREVERSIBLY CLOSABLE FLOW CONTROL CLAMP                              | US      | 60/353930 |                  |
| IRREVERSIBLY CLOSABLE FLOW CONTROL CLAMP                              | US      | 10/501571 |                  |
| HOLDER ASSEMBLY FOR BLOOD COLLECTION TUBE                             | US      | 60/364314 |                  |
| HOLDER ASSEMBLY FOR BLOOD COLLECTION TUBE                             | US      | 10/279251 |                  |
| BLOOD DONOR NEEDLE ASSEMBLY AND COVER                                 | US      | 10/974651 |                  |
| FLUID FLOW DIVERSION VALVE AND BLOOD COLLECTION SYSTEM EMPLOYING SAME | US      | 60/740312 |                  |
| FLUID FLOW DIVERSION VALVE AND BLOOD COLLECTION SYSTEM EMPLOYING SAME | US      | 11/564085 |                  |
| BLOOD COMPONENT CONTAINER   | US      | 11/376790 |                  |
| FLOW CONTROLLERS  | US      | 11/555797 |                  |
| FLOW CONTROLLERS  | US      | 11/555868 |                  |
| SYSTEMS AND METHODS FOR REMOVING UNDESIRE MATTER FROM BLOOD CELLS     | US      | 7/453952  | 4997577; RE35804 |
| MEDICAL CONTAINER PORT  | US      | 8/313560  | 5507904          |
| APPARATUS AND METHODS FOR FILTERING LEUKOCYTES FROM BLOOD CELLS       | US      | 8/700239  | 5772880          |

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| APPARATUS AND METHODS FOR FILTERING LEUKOCYTES FROM BLOOD CELLS  | US      | 8/178383  | 5591337   |
| F4-WHOLE BLOOD LEUKODEPLETION AND PLATETLET FILTER   | US      | 8/323559  | 5647985   |
| METHOD OF SEPARATING LEUKOCYTES FROM BLOOD CELLS USING A LEUKODEPLETION FILTER   | US      | 8/810751  | 5795483   |
| FILTRATION MEDIA FOR FILTERING LEUKOCYTES FROM FRESHLY DRAWN BLOOD   | US      | 8/370772  | 5728306   |
| FILTRATION MEDIA FOR FILTERING LEUKOCYTES FROM FRESHLY DRAWN BLOOD   | US      | 8/943455  | 5885457   |
| CONFINED AIR TUBE AND METHODS FOR HANDLING AIR IN CLOSED BLOOD PROCESSING SYSTEM   | US      | 9/082946  | 6267745   |
| CONFINED AIR TUBE AND METHODS FOR HANDLING AIR IN CLOSED BLOOD PROCESSING SYSTEM   | US      | 10/619870 | 6997893   |
| SYSTEMS AND METHODS FOR COLLECTING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES   | US      | 9/540935  | 6669905   |
| SYSTEMS AND METHODS FOR COLLECTING LEUKOCYTE-REDUCED BLOOD COMPONENTS, INCLUDING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES | US      | 60/252870 |           |
| SYSTEMS AND METHODS FOR COLLECTING LEUKOCYTE-REDUCED BLOOD COMPONENTS, INCLUDING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES | US      | 11/449543 |           |
| FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME  | US      | 10/055862 | 6601710   |

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| InvTitle  | Country | AppNumber | PatNumber |
|---|---------|-----------|-----------|
| FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME             | US      | 10/084605 | 6688476   |
| FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME             | US      | 10/764630 |           |
| BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER                 | US      | 9/498085  | 6367634   |
| BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER                 | US      | 10/761850 |           |
| BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER                 | US      | 9/593782  | 6422397   |
| BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER                 | US      | 10/159442 | 6745902   |
| BLOOD COLLECTION SYSTEMS INCLUDING A FLEXIBLE FILTER WITH A CUSHIONED PERIPHERY |         |           |           |
| OBTAIN ASAHI ATTORNEY COMMENTS  | US      | 10/275805 |           |
| BLOOD FILTER ASSEMBLY HAVING MULTIPLE FILTRATION REGIONS                        | US      | 10/742521 |           |
| BIOLOGICAL FLUID FILTRATION SYSTEMS AND METHODS                                 | US      | 11/618286 |           |
| MOBILE, SELF-CONTAINED BLOOD COLLECTION SYSTEM AND METHOD                       | US      | 7/296850  | 4911703   |
| MOBILE, SELF-CONTAINED BLOOD COLLECTION SYSTEM AND METHOD                       | US      | 7/496739  | 5232437   |
| OPTIMIZED FILTER AND METHOD   | US      | 7/473142  | 4964976   |
| METHOD AND APPARATUS FOR COLLECTION OF PLATELETS                                | US      | 8/459529  | 5614106   |
| DISPOSABLE TUBING SET AND ORGANIZER FRAME FOR HOLDING FLEXIBLE TUBING           | US      | 8/779094  | 5870805   |

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| InvTitle  | Country | AppNumber | PatNumber |
|---|---------|-----------|-----------|
| AUTOMATED BLOOD TRACKING SYSTEM AND INTERFACE   | US      | 60/287122 |           |
| SYSTEM AND METHOD FOR COMPILING AND VIEWING INFORMATION OF DATA ACTIONS WITHIN A BLOOD COLLECTION | US      | 9/864888  |           |
| A SYSTEM AND METHOD FOR TRACKING AND REORDERING SOFT GOODS  | US      | 9/864891  |           |
| BLOOD COMPONENT CENTRIFUGE HAVING COLLAPSIBLE INNER LINER   | US      | 824182    | 4934995   |
| DISPOSABLE CONTAINER FOR A CENTRIFUGE   | US      | 8/472671  | 5759147   |
| DISPOSABLE CONTAINER FOR A CENTRIFUGE   | US      | 7/744947  | 5217426   |
| DISPOSABLE CONTAINER FOR A CENTRIFUGE   | US      | 8/277706  | 5571068   |
| CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE                                      | US      | 8/199082  | 5494578   |
| CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE                                      | US      | 7/514995  | 5104526   |
| CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE                                      | US      | 7/677602  | 5076911   |
| CENTRIFUGAL FLUID PROCESSING SYSTEM AND METHOD  | US      | 7/598753  | 5078671   |
| SMALL VOLUME COLLECTION CHAMBER   | US      | 7/531175  | 5224921   |
| CENTRIFUGE WITH SEPARABLE BOWL AND SPOOL ELEMENTS PROVIDING ACCESS TO THE SEPARATION CHAMBER      | US      | 8/334197  | 5525218   |
| CENTRIFUGE WITH SEPARABLE BOWL AND SPOOL ELEMENTS PROVIDING ACCESS TO THE SEPARATION CHAMBER      | US      | 8/147015  | 5360542   |
| ENHANCED YIELD PLATELET COLLECTION SYSTEMS AND METHODS  | US      | 8/336283  | 5529691   |

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| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| ENHANCED YIELD PLATELET COLLECTION SYSTEMS AND METHODS   | US      | 7/965088  | 5370802   |
| ENHANCED YIELD COLLECTION SYSTEMS AND METHODS FOR OBTAINING CONCENTRATED PLATELETS FROM PLATELET-RICH PLASMA                     | US      | 8/978499  | 5993370   |
| TIME BASED INTERFACE DETECTION SYSTEMS FOR BLOOD PROCESSING  | US      | 8/109008  | 5316667   |
| COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS  | US      | 10/337486 | 6899666   |
| COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS  | US      | 8/856096  | 6228017   |
| COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS  | US      | 8/146403  | 5656163   |
| SYSTEMS AND METHODS FOR REDUCING THE NUMBER OF LEUKOCYTES IN CELLULAR PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES | US      | 8/454010  | 5549834   |
| SYSTEMS AND METHODS FOR ON-LINE COLLECTING AND RESUSPENDING CELLULAR-RICH BLOOD PRODUCTS LIKE PLATELET CONCENTRATES              | US      | 8/097293  | 5427695   |
| SYSTEMS AND METHODS FOR ON-LINE COLLECTION OF CELLULAR BLOOD COMPONENTS THAT ASSURE DONOR COMFORT                                | US      | 8/977305  | 6071421   |
| SYSTEMS AND METHODS FOR ON-LINE COLLECTION OF CELLULAR BLOOD COMPONENTS THAT ASSURE DONOR COMFORT                                | US      | 8/975694  | 6007725   |
| PERISTALTIC PUMP TUBE CASSETTE FOR BLOOD PROCESSING SYSTEMS AND THE LIKE   | US      | 8/173517  | 5462416   |

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| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| BLOOD PROCESSING SYSTEMS<br>USING A PERISTALTIC PUMP<br>MODULE   | US      | 8/173520  | 5482440   |
| PERISTALTIC PUMP MODULE<br>HAVING JAWS FOR GRIPPING A<br>PERISTALTIC PUMP TUBE<br>CASSETTE   | US      | 8/172654  | 5480294   |
| PERISTALTIC PUMP TUBE<br>CASSETTE WITH ANGLE PUMP<br>TUBE PORTS  | US      | 8/173518  | 5427509   |
| SELF LOADING PERISTALTIC<br>PUMP TUBE CASSETTE   | US      | 8/172130  | 5445506   |
| CENTRIFUGE WITH SLOPED<br>ROTATIONAL AXIS AND<br>FUNCTIONAL COMPONENTS<br>MOUNTED ON COMPLEMENTING<br>SLOPED PANEL                       | US      | 8/535762  | 5547453   |
| STRESS BEARING UMBILICUS<br>FOR A COMPACT CENTRIFUGE   | US      | 8/590353  | 5996634   |
| STRESS BEARING UMBILICUS<br>FOR A COMPACT CENTRIFUGE   | US      | 8/172131  | 5514069   |
| PERISTALTIC PUMP TUBE<br>HOLDER WITH PUMP TUBE<br>SHIELD AND COVER   | US      | 8/848020  | 5868696   |
| PERISTALTIC PUMP AND VALVE<br>ASSEMBLY FOR FLUID<br>PROCESSING   | US      | 8/173516  | 5484239   |
| BLOOD PROCESSING SYSTEM<br>HAVING SPILL SENSOR WITH<br>FAIL-SAFE   | US      | 8/270644  | 5529567   |
| PERISTALTIC PULSE PUMPING<br>SYSTEMS AND METHODS   | US      | 8/269933  | 5538405   |
| INTERACTIVE CONTROL<br>SYSTEMS FOR MEDICAL<br>PROCESSING DEVICES   | US      | 8/337639  | 5581687   |
| BLOOD COLLECTION SYSTEMS<br>AND METHODS WHICH DERIVE<br>INSTANTANEOUS BLOOD<br>COMPONENT YIELD<br>INFORMATION DURING BLOOD<br>PROCESSING | US      | 8/807820  | 5833866   |

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**1. Owned Buyer Patents**

| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| BLOOD PROCESSING SYSTEMS AND METHODS WHICH MONITOR CITRATE RETURN TO THE DONOR   | US      | 8/472439  | 5676841   |
| BLOOD PROCESSING SYSTEMS AND METHODS USING APPARENT HEMATOCRIT AS A PROCESS CONTROL PARAMETER                          | US      | 8/960674  | 6059979   |
| BLOOD PROCESSING SYSTEMS AND METHODS USING APPARENT HEMATOCRIT AS A PROCESS CONTROL PARAMETER                          | US      | 9/793801  | 6451203   |
| SYSTEMS AND METHODS FOR DERIVING RECOMMENDED STORAGE PARAMETERS FOR COLLECTED BLOOD COMPONENTS                         | US      | 8/483733  | 5639382   |
| SYSTEM AND METHOD FOR ESTIMATING PLATELET COUNT USING A SPLEEN MOBILIZATION FUNCTION                                   | US      | 9/027638  | 6197202   |
| SYSTEM AND METHOD FOR ESTIMATING PLATELET COUNT USING A SPLEEN MOBILIZATION FUNCTION                                   | US      | 8/480601  | 5759413   |
| SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES | US      | 10/430785 | 6872307   |
| SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES | US      | 11/064267 |           |
| SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES | US      | 9/548190  | 6361692   |



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| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES | US      | 9/223212  | 6051147   |
| SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES | US      | 8/606189  | 5865785   |
| UMBILICUS GIMBAL WITH BEARING RETAINER   | US      | 8/835928  | 5989177   |
| INTERFACE DETECTOR AND CONTROL SYSTEMS AND METHODS   | US      | 8/922880  | 5980757   |
| BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR PLASMA OPACITY  | US      | 8/896665  | 5958250   |
| BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR PLASMA OPACITY  | US      | 9/382893  | 6183651   |
| BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR INCREMENTAL PLATELET VOLUMES IN A PLASMA CONSTITUENT      | US      | 9/419727  | 6312607   |
| PERISTALTIC PUMP CONTROLLER WITH SCALE FACTOR THAT VARIES AS A STEP FUNCTION OF PUMP INLET PRESSURE                    | US      | 8/960676  | 5947692   |
| SYSTEMS AND METHODS FOR STORING, RETRIEVING AND MANIPULATING DATA IN MEDICAL PROCESSING DEVICES                        | US      | 9/037356  | 6256643   |
| SYSTEMS AND METHODS FOR STORING, RETRIEVING AND MANIPULATING DATA IN MEDICAL PROCESSING DEVICES                        | US      | 9/855901  | 6542910   |

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| InvTitle  | Country | AppNumber | PatNumber |
|---|---------|-----------|-----------|
| APHERESIS SYSTEM WITH ANTICOAGULANT FLOW CONTROL  | US      | 9/042260  | 6565806   |
| APHERESIS SYSTEM WITH ANTICOAGULANT FLOW CONTROL  | US      | 10/372882 | 6855120   |
| A CARRIER FOR HOLDING A FLEXIBLE FLUID PROCESSING CONTAINER   | US      | 9/050614  | 7001321   |
| BLOOD COLLECTION SYSTEMS AND METHODS THAT DERIVE ESTIMATED EFFECTS UPON THE DONOR'S BLOOD BOLUME AND HEMATOCRIT         | US      | 10/827951 |           |
| BLOOD COLLECTION SYSTEMS AND METHODS THAT DERIVE ESTIMATED EFFECTS UPON THE DONOR'S BLOOD BOLUME AND HEMATOCRIT         | US      | 9/789183  | 6730054   |
| SYSTEMS AND METHODS FOR SEPARATING HIGH HEMATOCRIT RED BLOOD CELL CONCENTRATIONS  | US      | 9/072961  | 6080322   |
| SYSTEMS AND METHODS WHICH OBTAIN A UNIFORM TARGETED VOLUME OF CONCENTRATED RED BLOOD CELLS IN DIVERSE DONOR POPULATIONS | US      | 8/979160  | 6251284   |
| SYSTEM AND METHODS FOR SEPARATING, COLLECTING AND STORING RED BLOOD CELLS   | US      | 9/287671  | 6527957   |
| PRE-DONATION SAMPLING SYSTEM INCLUDING A SAMPLING POUCH   | US      | 10/279252 |           |
| SELF-CONTAINED, TRANSPORTABLE BLOOD PROCESSING DEVICE   | US      | 9/390489  | 6325775   |
| PROGRAMMABLE, FLUID PRESSURE ACTUATED BLOOD PROCESSING SYSTEMS AND METHODS  | US      | 9/390268  | 6949079   |

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| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| PROGRAMMABLE, FLUID PRESSURE ACTUATED BLOOD PROCESSING SYSTEMS AND METHODS   | US      | 11/052528 |           |
| SYSTEMS AND METHODS FOR CONTROL OF PUMPS EMPLOYING ELECTRICAL FIELD SENSING  | US      | 10/153165 | 6984218   |
| FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS   | US      | 9/389797  | 6481980   |
| FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS   | US      | 10/828440 |           |
| FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS   | US      | 10/287560 | 6716004   |
| SYSTEM AND METHODS FOR CONTROL OF PUMPS EMPLOYING GRAVIMETRIC SENSING  | US      | 9/390269  | 6296450   |
| SYSTEMS AND METHODS FOR CONTROL OF PUMPS EMPLOYING ELECTRICAL FIELD SENSING  | US      | 9/390491  | 6261065   |
| BLOOD PROCESSING SYSTEMS AND METHODS WITH SENSORS TO DETECT CONTAMINATION DUE TO PRESENCE OF CELLULAR COMPONENTS OR DILUTION DUE TO PRESENCE OF PLASMA | US      | 9/390492  | 6348156   |
| SENSING SYSTEMS AND METHODS FOR DIFFERENTIATING BETWEEN DIFFERENT CELLULAR BLOOD SPECIES DURING EXTRACORPOREAL BLOOD SEPARATION OR PROCESSING          | US      | 9/931146  | 6537445   |
| SYSTEMS AND METHODS FOR SENSING RED BLOOD CELL HEMATOCRIT  | US      | 9/901986  | 6419822   |

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| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| BLOOD SEPARATION SYSTEMS AND METHODS USING A MULTIPLE FUNCTION PUMP STATION TO PERFORM DIFFERENT ON-LINE PROCESSING TASKS        | US      | 9/389504  | 7041076   |
| BLOOD SEPARATION SYSTEMS AND METHODS USING A MULTIPLE FUNCTION PUMP STATION TO PERFORM DIFFERENT ON-LINE PROCESSING TASKS        | US      | 11/375965 |           |
| BLOOD PROCESSING SYSTEMS AND METHODS THAT ALTERNATE FLOW OF BLOOD COMPONENT AND ADDITIVE SOLUTION THROUGH AN IN-LINE LEUKOFILTER | US      | 9/976832  | 6875191   |
| BLOOD PROCESSING SYSTEMS AND METHODS THAT ALTERNATE FLOW OF BLOOD COMPONENT AND ADDITIVE SOLUTION THROUGH AN IN-LINE LEUKOFILTER | US      | 11/032271 |           |
| BLOOD SEPARATION CHAMBER WITH PREFORMED BLOOD FLOW PASSAGES AND CENTRALIZED CONNECTION TO EXTERNAL TUBING                        | US      | 9/389938  | 6322488   |
| BLOOD SEPARATION CHAMBER WITH PREFORMED BLOOD FLOW PASSAGES AND CENTRALIZED CONNECTION TO EXTERNAL TUBING                        | US      | 10/438953 | 6800054   |
| BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE  | US      | 10/339473 | 7166231   |
| BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE  | US      | 9/389935  | 6524231   |

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| InvTitle  | Country | AppNumber | PatNumber |
|---|---------|-----------|-----------|
| BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE                                   | US      | 11/256550 |           |
| SYSTEMS AND METHODS FOR SEPARATING BLOOD IN A ROTATING FIELD  | US      | 9/390266  | 6315707   |
| BLOOD PROCESSING SYSTEMS AND METHODS EMPLOYING FLUID PRESSURE ACTUATED PUMPS AND VALVES                           | US      | 9/389934  | 6759007   |
| FLUID PRESSURE ACTUATED BLOOD PUMPING SYSTEMS AND METHODS WITH CONTINUOUS INFLOW AND PULSATILE OUTFLOW CONDITIONS | US      | 10/828359 |           |
| FLUID PRESSURE ACTUATED BLOOD PUMPING SYSTEMS AND METHODS WITH CONTINUOUS INFLOW AND PULSATILE OUTFLOW CONDITIONS | US      | 9/390265  | 6723062   |
| MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS   | US      | 60/216640 |           |
| MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS   | US      | 10/031112 | 6994781   |
| MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS   | US      | 11/198804 |           |
| MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS   | US      | 11/198805 |           |
| ADAPTABLE BLOOD PROCESSING PLATFORMS  | US      | 10/144662 | 7032910   |
| RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WHICH CONTROL RED BLOOD CELL HEMATOCRIT                             | US      | 10/280109 | 7011761   |

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| InvTitle  | Country | AppNumber | PatNumber |
|---|---------|-----------|-----------|
| RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WHICH CONTROL RED BLOOD CELL HEMATOCRIT   | US      | 11/255356 |           |
| RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WITH DELIVERATE UNDER SPILL OF RED BLOOD CELLS                                      | US      | 10/279772 | 6878105   |
| BLOOD COMPONENT PROCESSING SYSTEMS AND METHODS USING FLUID-ACTUATED PUMPING ELEMENTS THAT ARE INTEGRITY TESTED PRIOR TO THEIR USE | US      | 10/280108 | 6846161   |
| BLOOD COMPONENT PROCESSING SYSTEMS AND METHODS USING FLUID-ACTUATED PUMPING ELEMENTS THAT ARE INTEGRITY TESTED PRIOR TO USE       | US      | 10/983014 | 7004727   |
| BLOOD PROCESSING SYSTEMS AND METHODS FOR COLLECTING PLASMA FREE OR ESSENTIALLY FREE OF CELLULAR BLOOD COMPONENTS                  | US      | 10/279765 | 6849039   |
| BLOOD PROCESSING SYSTEMS AND METHODS WITH UMBILICUS-DRIVEN BLOOD PROCESSING CHAMBERS  | US      | 10/279779 | 6860846   |
| SEPARATION APPARATUS AND METHOD   | US      | 60/533820 |           |
| SEPARATION APPARATUS AND METHOD   | US      | 10/827603 |           |
| METHOD AND APPARATUS FOR COLLECTING AND PROCESSING BLOOD  | US      | 60/532310 |           |
| METHOD AND APPARATUS FOR COLLECTING AND PROCESSING BLOOD  | US      | 10/826420 |           |

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| InvTitle  | Country | AppNumber | PatNumber |
|---|---------|-----------|-----------|
| METHODS FOR DETERMINING FLOW RATES OF BIOLOGICAL FLUIDS   | US      | 10/826086 | 7087177   |
| METHODS FOR DETERMINING FLOW RATES OF BIOLOGICAL FLUIDS   | US      | 11/427402 |           |
| IRRADIATION OF BLOOD PRODUCTS   | US      | 7/346202  | 4952812   |
| RED BLOOD CELL STORAGE SOLUTION   | US      | 8/742279  | 5906915   |
| SYSTEMS AND METHODS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUIDS LIKE BLOOD USING DISCRETE SOURCES OF RADIATION | US      | 8/174211  | 5868695   |
| SYSTEMS AND METHODS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUID LIKE BLOOD                                      | US      | 7/991758  | 5300019   |
| SYSTEMS AND METHODS FOR REMOVING FREE AND ENTRAINED CONTAMINANTS IN PLASMA  | US      | 9/073230  | 6695805   |
| SYSTEMS AND METHODS FOR REMOVING FREE AND ENTRAINED CONTAMINANTS IN PLASMA  | US      | 8/574741  | 5935092   |
| SYSTEMS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUIDS LIKE BLOOD   | US      | 7/994094  | 5290221   |
| CONTAINER FOR IRRADIATION OF BLOOD PRODUCTS   | US      | 10/752352 |           |
| METHOD FOR INACTIVATING PATHOGENS IN A BODY FLUID   | US      | 8/010469  | 5360734   |
| METHOD FOR INACTIVATING PATHOGENS IN A BODY FLUID   | US      | 8/274507  | 5597722   |
| STEAM STERILIZABLE SYSTEM FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS  | US      | 7/952427  | 6207107   |

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| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| APPARATUS AND METHOD FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS  | US      | 8/434700  | 5527704   |
| APPARATUS AND METHOD FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS  | US      | 9/675511  | 6800432   |
| METHOD AND APPARATUS FOR TREATING A BODY FLUID                           | US      | 8/168438  | 6319662   |
| APPARATUS AND METHOD FOR INACTIVATING VIRUSES IN PLASMA                  | US      | 8/299398  | 5762887   |
| SYNTHETIC MEDIA FOR BLOOD COMPONENTS                                     | US      | 8/692444  | 5908742   |
| SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD                 | US      | 8/742572  | 6190855   |
| SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD                 | US      | 9/688079  | 6855489   |
| SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD                 | US      | 11/056347 |           |
| METHODS AND APPARATUS FOR INACTIVATING CONTAMINANTS IN BIOLOGICAL FLUIDS | US      | 8/752606  | 5922278   |
| METHODS AND APPARATUS FOR INACTIVATING CONTAMINANTS IN BIOLOGICAL FLUID  | US      | 9/081168  | 6190609   |
| PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS              | US      | 9/490191  | 6326197   |
| PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS              | US      | 8/871115  | 6063624   |
| PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS              | US      | 10/029785 | 6613566   |
| SYNTHETIC MEDIA FOR BLOOD COMPONENTS                                     | US      | 9/732174  | 6566046   |
| SYNTHETIC MEDIA FOR BLOOD COMPONENTS                                     | US      | 9/240067  | 6251580   |



**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| SYNTHETIC MEDIA FOR BLOOD COMPONENTS   | US      | 10/413110 | 6866992   |
| COMPOSITE MEMBRANES AND METHODS FOR MAKING SUCH MEMBRANES                                | US      | 9/997822  | 6899834   |
| COMPOSITE MEMBRANES AND METHODS FOR MAKING SUCH MEMBRANES                                | US      | 9/111915  | 6908553   |
| APPARATUS, MEMBRANES AND METHODS FOR REMOVING ORGANIC COMPOUNDS FROM A BIOLOGICAL FLUID  | US      | 9/111655  | 6099734   |
| PLASTIC CONTAINERS HAVING INNER POUCHES AND METHODS FOR MAKING SUCH CONTAINERS           | US      | 10/059666 |           |
| PLASTIC CONTAINERS HAVING INNER POUCHES AND METHODS FOR MAKING SUCH CONTAINERS           | US      | 9/325436  | 6364864   |
| APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT   | US      | 9/325325  | 6565802   |
| APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT   | US      | 10/207744 | 6986867   |
| APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT   | US      | 11/191134 |           |
| APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT | US      | 10/269409 | 7068361   |
| APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT | US      | 11/443599 |           |
| APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT | US      | 11/443927 |           |

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

| InvTitle   | Country | AppNumber | PatNumber |
|--|---------|-----------|-----------|
| PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID                                  | US      | 10/267566 | 7105093   |
| PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID                                  | US      | 9/325599  | 7205877   |
| PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID                                  | US      | 11/353397 |           |
| FLUID PROCESSING SETS AND ORGANIZERS FOR THE SAME  | US      | 10/269444 |           |
| MANUAL PROCESSING SYSTEMS AND METHODS FOR PROVIDING BLOOD COMPONENTS CONDITIONED FOR PATHOGEN INACTIVATION | US      | 10/008361 |           |
| METHODS AND SYSTEMS FOR PREPARING BLOOD PRODUCTS   | US      | 10/004696 | 6936413   |
| METHODS AND SYSTEMS FOR PREPARING BLOOD PRODUCTS   | US      | 11/173214 |           |
| COMPOUND REMOVAL DEVICE  | US      | 60/364289 |           |
| METHOD AND APPARATUS FOR A PATHOGEN INACTIVATION MANAGEMENT SYSTEM   | US      | 10/290035 |           |
| FLOW-THROUGH REMOVAL DEVICE AND SYSTEM USING SUCH DEVICE   | US      | 10/661994 |           |
| FLOW-THROUGH REMOVAL DEVICE AND SYSTEM USING SUCH DEVICE   | US      | 11/267391 |           |

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